

ABSTRACT OF THE DISCLOSURE

A method of detecting and locating noise sources each emitting respective signals S_j with $j = 1$ to M , detection being provided by a sound wave or vibration sensors each delivering a respective time-varying electrical signal s_i with i in the range 1 to N , wherein the method steps include: (a) taking the time-varying electrical signals delivered by the sensors, each signal $s_i(t)$ delivered by a sensor being the sum of the signals S_j emitted by the noise sources; (b) amplifying and filtering the time-varying electrical signals as taken; (c) digitizing the electrical signals; (d) calculating a functional; and (e) minimizing the functional relative to the vectors \mathbf{n}_j for $j = 1$ to M so as to determine the directions of vector \mathbf{n}_j of the noise sources.